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By: Nancy RamosPrinted: Nancy Ramos

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Goli et al.

Title: A NOVEL GLUTATHIONE S-TRANSFERASE

Serial No.: To Be Assigned

Filing Date: Herewith

Examiner: To Be Assigned

Group Art Unit: To Be Assigned

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**Official Draftsman**

Commissioner for Patents

Washington, D.C. 20231

**SUBMISSION OF FORMAL DRAWINGS**

Sir:

Transmitted herewith are Figures 1A, 1B, 1C, 2A, 2B, 3, 4, 5, 6, 7, 8, 9 as twelve (12) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108. A duplicate copy of this communication is enclosed.**

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

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9 18 27 36 45 54  
 5' ATG GCA AGG CCC AAG CTC CAC TAT CCC AAC GGA AGA GGC CGG ATG GAG TTC  
 M A A R P K L H Y P N G R G R M E S  
  
 63 72 81 90 99 108  
 GTG AGA TGG GTT TTA GCT GCC GCC GTC GAG TTT GAT GAA GAA TTT CTG GAA  
 V R W V L A A A G V E F D E E F L E  
  
 117 126 135 144 153 162  
 ACA AAA GAA CAG TTG TAC AAG TTG CAG GAT GGT AAC CAC CTG CTG TTC CAA CAA  
 T K E Q L Y K L Q D G N H L L F Q Q  
  
 171 180 189 198 207 216  
 GTG CCC ATG GTT GAA ATT GAC GGG ATG AAG TTG GTA CAG ACC CGA AGC ATT CTC  
 V P M V E I D G M K L V Q T R S I L  
  
 225 234 243 252 261 270  
 CAC TAC ATA GCA GAC AAG CAC AAT CTC TTT GGC AAG AAC CTC AAG GAG AGA ACC  
 H Y I A D K H N L F G K N L K E R T  
  
 279 288 297 306 315 324  
 CTG ATT GAC ATG TAC GTG GAG GGG ACA CTG GAT CTG GAA CTG CTT ATC ATG  
 L I D M Y V E G T L D L L E L L I M

FIGURE 1A

333	CAT CCT TTC TTA AAA	342	CCA GAT GAT CAG CAA AAG GAA	351	360	369	378
	H P F L K P D D Q Q K E V V N M A Q						
387	AAG GCT ATA ATT AGA TAC	396	TTT CCT GTG TTT GAA AAG ATT	405	414	423	432
	K A I I R Y F P V F E K I L R G H G						
441	CAA AGC TTT CTT GTT GGT AAT	450	CAG CTG AGC CTT GCA GAT	459	468	477	486
	Q S F L V G N Q L S L A D V I L L Q						
495	ACC ATT TTA GCT CTA GAA	504	GAG AAA ATT CCT AAT ATC	513	522	531	540
	T I L A L E E K I P N I L S A F P F						
549	CTC CAG GAA TAC ACA GTG	558	AAA CTA AGT AAT ATC CCT	567	576	585	594
	L Q E Y T V K L S N I P T I K R F L						
603	GAA CCT GGC AGC AAG AAG	612	AAG CCT CCC CCT GAT GAA	621	630	639	648
	E P G S K K K P P P D E I Y V R T V						

FIGURE 1B

657	TAC AAC ATC TTT AGG CCA TAA AAC AAC ACA TCC ATG TGT GAG TGA CAG TCT GTT	675	684	693	702
Y N I F R P					
711	CCT AGA GAT GGT ATT GTC TAC AGT CAT GTC TTA ATG GAT CCC AGC TCT GTC ATG	720	729	738	747
765	GTG CTA TCT ATG TAT TAA GTT GGG TCC TAA GTT GGG TCT TTT GT 3'	774	783	792	

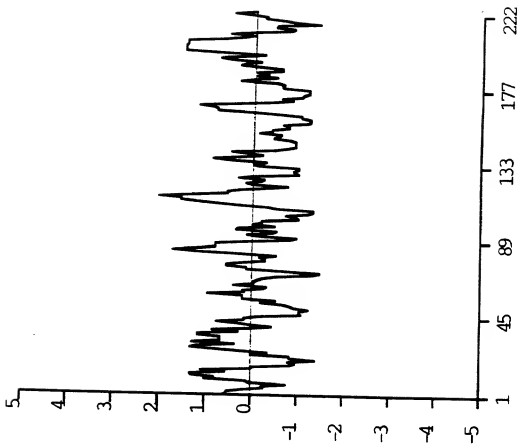
FIGURE 1C

1	M A A R P K L H Y	P N G R G M E S	V R W V	L A A A G V E F	D E E F L E	T K E Q	H S T
1	M A E K P K L H Y	S N T R G M E S	I R W L	L A A A G V E F	E E E K F I K	S A E D	g825605
1	M A E K P K L H Y	F N A R G M E S	T R W L	L A A A G V E F	E E E K F I K	S A E D	g259141
1	M A A K P K L Y	F N G R G M E S	I R W L	L A A A G V E F	E E E F L E	T R E Q	g193710
41	L Y K L Q D G N	H L L F Q Q V P M V E I	D G M K L V Q T R	S I L H	Y I A D	K H N	H S T
41	L D K L R N D G	Y L M F Q Q V P M V E I	D G M K L V Q T R	A I L N	Y I A S	K Y N	g825605
41	L D K L R N D G	Y L M F Q Q V P M V E I	D G M K L V Q T R	A I L N	Y I A S	K Y N	g259141
41	Y E K M Q K D G	H L L F Q Q V P L V E I	D G M M L T Q T R	A I L S	Y L A A	K Y N	g193710
81	L F G K N L K E R	T L I D M Y V E G	T L D L	L E L L I M H	P F L K P	D D Q Q K E	H S T
81	L Y G K D I K E K	A L I D M Y I E G	A D L G E M I	L L L P F T Q	P E E Q D A K		g825605
81	L Y G K D I K E R	A L I D M Y I E G	A D L G E M I	L L L P V C P	P E E K D A K		g259141
81	L Y G K D L K E R	V R I D M Y A D G	T Q D L M M M I	A V A P F K T	P K E K E S		g193710
121	V V N M A Q K A	I I R Y F P V F E K	I L R G H G Q S	F L V G N Q L S	L A D V I L		H S T
121	L A L I Q E K T	K N R Y P A F E K	V L K S H G Q D Y	L V G N K L S	R A D I H L		g825605
121	L A L I K E K I	K N R Y P A F E K	V L K S H G Q D Y	L V G N K L S	R A D I H L		g259141
121	Y D L I L S R A K	T R Y F P V F E K	I L K D H G E A F	L V G N Q L S	W A D I Q L		g193710

FIGURE 2A

161	L	Q	T	I	L	A	L	E	E	K	I	P	N	I	L	S	A	P	F	L	Q	E	Y	T	V	K	L	S	N	I	P	T	I	K	R	F	L	E	P	HST	
161	V	E	L	L	Y	Y	V	E	E	L	D	S	S	L	I	S	S	F	P	L	L	K	A	L	K	T	R	I	S	N	L	P	T	V	K	K	F	L	Q	P	g825605
161	V	E	L	L	Y	Y	V	E	E	L	D	S	S	L	I	S	S	F	P	L	L	K	A	L	K	T	R	I	S	N	L	P	T	V	K	K	F	L	Q	P	g259141
161	L	E	A	I	L	M	V	E	E	L	S	A	P	V	L	S	D	F	L	L	Q	A	F	K	T	R	I	S	N	I	P	T	I	K	K	F	L	Q	P	g193710	
201	G	S	K	K	K	P	P	P	D	E	I	Y	V	R	T	V	Y	N	I	F	R	P	HST																		
201	G	S	P	R	K	P	P	M	D	E	K	S	L	E	E	S	R	K	I	F	R	F	g825605																		
201	G	S	P	R	K	P	P	M	D	E	K	S	L	E	E	S	A	R	K	I	F	R	F	g259141																	
201	G	S	Q	R	K	P	P	P	D	G	P	Y	V	E	V	V	R	I	V	L	K	F	g193710																		

FIGURE 2B



**FIGURE 3**

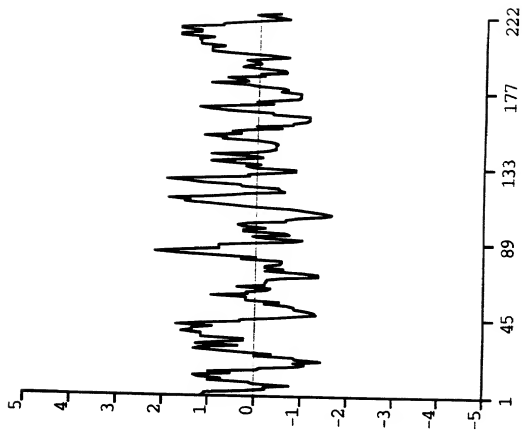


FIGURE 4



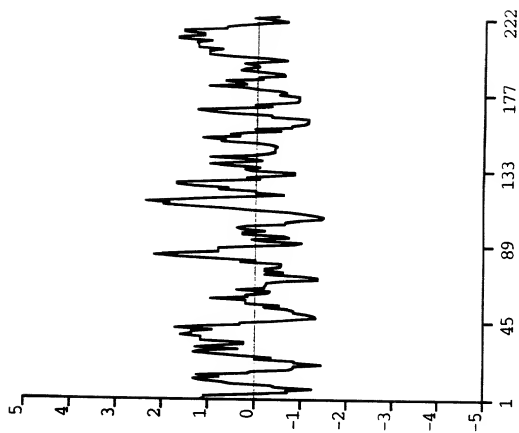


FIGURE 5

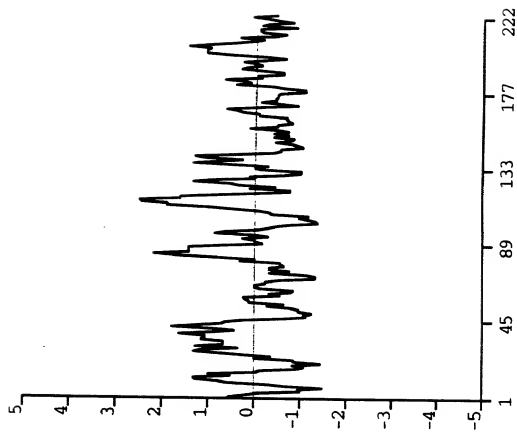


FIGURE 6

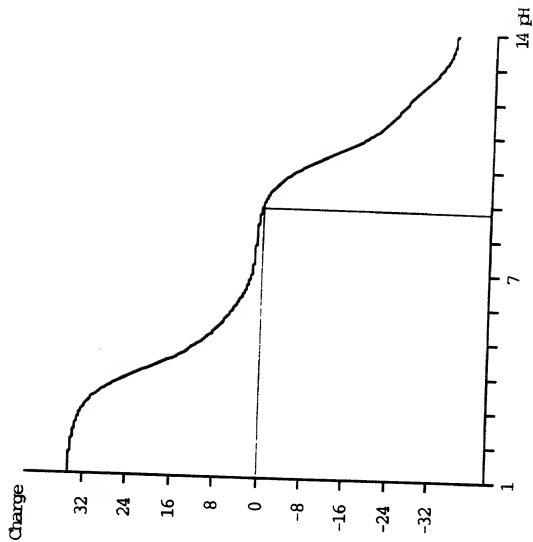


FIGURE 7

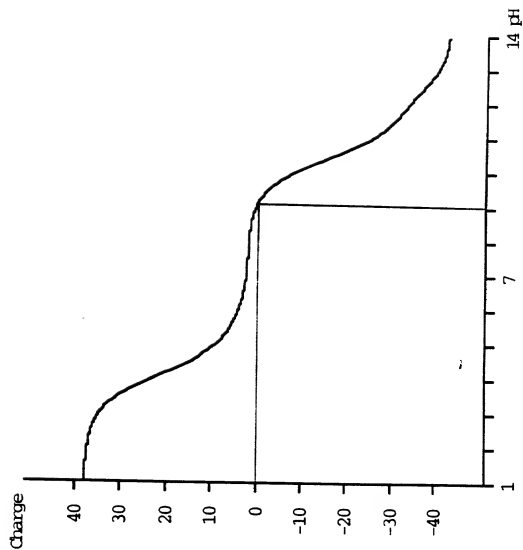


FIGURE 8

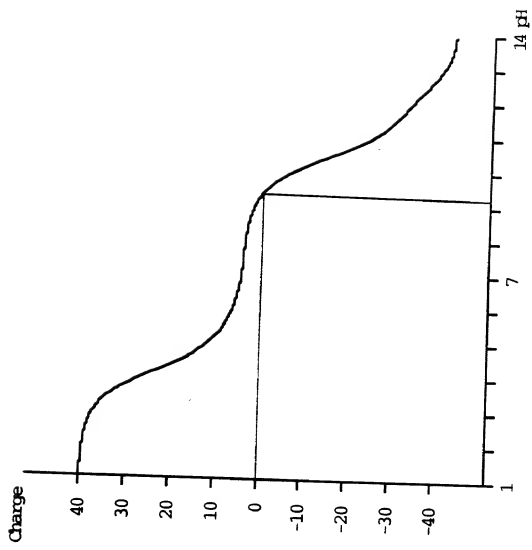


FIGURE 9